

SUPERIOR BRASS & ALUMINUM CASTING CO.

4893 Dawn Ave.

East Lansing, MI 48823

ANNUAL REPORT OF HAZARDOUS WASTE EXPORTS FOR CALENDAR YEAR 2014
In conformance with CFR262.54

1. PRIMARY EXPORTER (Consignor)
Name: Superior Brass & Aluminum Casting Co.
EPA ID No: MID005339155
Mailing Address: 4893 Dawn Avenue
City: East Lansing State: MI Zip Code: 48823

Site Address: 4893 Dawn Avenue
City: East Lansing State: MI Zip Code: 48823
2. CALENDAR YEAR: 2014
3. DESIGNATED DISPOSAL FACILITY (Consignee)
Name: Newalta Corporation
Address: 52 Imperial Street
Hamilton, Ontario, Canada L8L 4E3
EPA ID No: A100140
4. WASTE SENT to NEWALTA CORPORATION:
Waste Information:
Description of Waste: Waste Bag House Dust/Filters
EPA Hazardous Waste Number: D008 (lead) and D006 (Cadmium)
DOT Proper Shipping Name: Waste Environmentally Hazardous
Substance, Solid, NOS
DOT Hazard Class: 9
DOT ID Code (UN/NA): UN3077

Under:
US EPA Acknowledgement Numbers:
007080/4E/13, (June 08, 2013 – June 07, 2014)
009234/3E/14, (May 22, 2014 – May 21, 2015)

Environment Canada Permit Numbers:
13/07080/IMP, (10 June, 2013 – 07 June, 2014)
14/09234/IMP, (22 May, 2014 – 21 May, 2015)

Shipping Information:
Number of Shipments during Calendar Year: Two (2)
a. On 03/13/14 shipped 1,889 pounds (857 kgs) in 16, 55-gallon drums, via
transporter:
Harold Marcus Ltd.
EPA ID No: MIT270012321

SUPERIOR BRASS & ALUMINUM CASTING CO.

4893 Dawn Ave.

East Lansing, MI 48823

ANNUAL REPORT OF HAZARDOUS WASTE EXPORTS FOR CALENDAR YEAR 2014
In conformance with CFR262.54

- b. On 09/03/14 shipped 1310 pounds (594 kgs) in 12, 55-gallons drums, via transporter:
Harold Marcus Ltd.
EPA ID No: MIT270012321
- c. Total Volume of Waste shipped in calendar year 2014 summary:
Two shipments totaling 3,199 pounds, (1,451 kgs) in 28, 55-gallon drums.

5. WASTE MINIMIZATION STATEMENT
☐ Not required this year
☒ Attached

6. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Signed: David J. Fedo Date: 02-10-15

SUPERIOR BRASS & ALUMINUM CASTING CO.
4893 Dawn Ave.
East Lansing, MI 48823

ANNUAL REPORT OF HAZARDOUS WASTE EXPORTS FOR CALENDAR YEAR 2014
In conformance with CFR262.54

2014 WASTE MINIMIZATION STATEMENT
FOR WASTE BAGHOUSE DUST

I. PRODUCTION

Waste baghouse dust is the collection of fumes generated by the melting of brass/bronze ingots. Lead and cadmium are the main toxic elements found in the fumes from the melting process of brass and bronze alloys. High concentrations of lead and cadmium in the baghouse dust results in the need to dispose of this material as a hazardous waste. Cadmium is not listed as a compositional element in any of our brass/bronze alloys poured. Cadmium has been found only in trace amounts in these alloys and will be difficult to minimize. Lead will be the main focus of waste minimization. The collected fumes, from the melting of these alloys, passes through a dust collector where dust particles are removed from the air stream. The quantity and quality of this waste is based on the alloys used to meet the customer orders for brass/bronze castings. Based on our customer orders, Superior Brass & Aluminum Casting Co, (Superior Brass) in calendar year 2014 poured eight different brass/bronze alloys.

SUPERIOR BRASS - BRASS/BRONZE ALLOYS POURED IN 2013

ALLOY ASTM DESIGNATION	ALLOWABLE % LEAD IN EACH ALLOY (by weight)
C83600 (85-5-5-5)	4.0 -6.0 %
C86200 (423 MnBr)	Maximum 0.2 %
C86300 (424 MnBr)	Maximum 0.4 %
C86400 (420 MnBr)	0.5 - 1.5 %
C86500 (421 MnBr)	Maximum 0.4 %
C86700 (422 MnBr)	0.5 - 1.5 %
C87600 (Sil Br)	Maximum 0.09 %
C99500 (NDZS specialty)	Maximum 0.09 %

II. MINIMIZATION

(Discussion is based on total part weight)

Superior Brass continues to make rough cast parts for the water industry, fire hydrants and water valves. Superior Brass continues to address the minimizing of our hazardous waste (lead) through the offering of lower lead alternative alloys to our customers. In 2013 parts made with our highest lead alloy C83600, made up approximately 6% of the total parts shipped. In 2014 we were able to switch or replace many of the C83600 parts to C87600 parts. C87600 is one of the lowest lead alloys we pour. In 2013, C87600 parts made up approximately 14% of the total parts we shipped. In 2014, C87600 alloy parts made up approximately 27% of the total parts shipped whereas parts of C83600 were down to less the 2% of total parts shipped. Superior Brass shipped 13% more parts by weight in 2014 than in 2013. The toxicity of this waste based on both lead

SUPERIOR BRASS & ALUMINUM CASTING CO.
4893 Dawn Ave.
East Lansing, MI 48823

ANNUAL REPORT OF HAZARDOUS WASTE EXPORTS FOR CALENDAR YEAR 2014
In conformance with CFR262.54

and cadmium concentrations in mg/kg decreased. Also, this is the third year we have been able to at least double the amount of C87600 parts poured from the previous year while reducing the amount of C83600 parts poured.

Superior Brass hopes to continue to reduce or nearly eliminate the amount of C83600 alloy poured thus continuing to reduce the amount and toxicity of our hazardous waste in the future.

Superior Brass & Aluminum Casting Co.
Quality Castings Since 1924
 4893 Dawn Avenue
 East Lansing, Michigan 48823-5694

Office of Enforcement and Compliance Assurance
 Office of Federal Activities
 International Compliance Assurance Division (2254A)
 Environmental Protection Agency
 1200 Pennsylvania Avenue, NW
 Washington, D.C. 20460



0508 0560 1000 0150 4102

U.S. POSTAGE
 PAID
 PERMIT NO. 100
 EAST LANSING, MI 48823-5694
 FEB 11 13
 \$6.70



2. Article Number
 (Transfer from service label) 7014 0510 0001 0952 8058
 PS Form 3811, July 2013 Domestic Return Receipt

1. Article Addressed to:
 OFFICE OF ENFORCEMENT & COMPLIANCE
 ASSURANCE
 OFFICE OF FEDERAL ACTIVITIES
 INTERNATIONAL COMPLIANCE ASSURANCE
 DIVISION (2254A)
 ENVIRONMENTAL PROTECTION AGENCY
 1200 PENNSYLVANIA AVE, NW
 WASHINGTON, D.C. 20460

3. Service Type
☒ Certified Mail®
☐ Registered
☐ Insured Mail
☐ Priority Mail Express™
☐ Return Receipt for Merchandise
☐ Collect on Delivery
☐ Yes

4. Restricted Delivery? (Extra Fee) ☐ Yes

5. Signature ☐ Agent ☐ Addressee

6. Received by (Printed Name) C. Date of Delivery

7. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☐ No

SENDER: COMPLETE THIS SECTION

COMPLETE THIS SECTION ON DELIVERY

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT

525